## I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Currently Amended) A radiation source module comprising:
- a support member frame comprising a first support member, a second support member opposed to the first support member and a third support member interconnecting the first support member and second support member,
- a radiation source assembly <del>connected to the</del>

  <del>support member</del> supported by the first support member and the

  second support member, and
- a seal disposed on a first surface of the <u>third</u> support member, the seal operable to provide a substantially fluid tight seal between the first surface and a second surface which is adjacent to the first surface.
  - 2. (Cancelled).
  - 3. (Cancelled).

- 4. (Cancelled).
- 5. (Cancelled).
- 6. (Original) The radiation source module defined in claim 1, wherein a power supply is disposed in the frame.
- 7. (Original) The radiation source module defined in claim 1, further comprising an extraction system for moving the module between an in-use and in-service position with respect to a fluid treatment system.
- 8. (Original) The radiation source module defined in claim 1, wherein the seal comprises an expandable seal.
- 9. (Original) The radiation source module defined in claim 1, wherein the seal comprises a deformable seal.
- 10. (Currently Amended) A fluid treatment system comprising:

an open channel for receiving a flow of fluid, and at least one radiation source module disposed in the channel, a surface of the at least one radiation source module, in combination with the open channel, confining fluid

to be treated in a closed fluid treatment zone,

the radiation source module comprising: (i) a first support member, (ii) a second support member opposed to the first support member, (iii) a third support member interconnecting the first support member and second support member, (iv) at least one radiation source assembly disposed in the fluid treatment zone and supported by the first support member and the second support member and (iv) a seal disposed on a first surface of the third support member, the seal operable to provide a substantially fluid tight seal between the first surface and a second surface which is adjacent to the first surface.

- 11. (Cancelled).
- 12. (Cancelled).
- 13. (Cancelled).
- 14. (Cancelled).
- 15. (Cancelled).
- 16. (Currently Amended) The fluid treatment system defined in claim 15 10, comprising a plurality of radiation source modules in side-by-side arrangement.

- 17. (Original) The fluid treatment system defined in claim 10, wherein a power supply is disposed on the frame.
- 18. (Original) The fluid treatment system defined in claim 10, further comprising an extraction system for allowing movement of the module between an in-use and inservice position with respect to a fluid treatment system.
- 19. (Original) The fluid treatment system defined in claim 10, wherein the radiation source module further comprises a blocking plate which obstructs the open channel when the radiation source module is in an extracted position.
- 20. (Original) The fluid treatment system defined in claim 10, wherein the seal comprises an expandable seal.
- 21. (Original) The fluid treatment system defined in claim 10, wherein the seal comprises a deformable seal.
- 22. (Currently Amended) A fluid treatment system comprising:

an open channel for receiving a flow of fluid,

a confining element moveable <u>by rotation or</u>

<u>translation</u> between a first position to define a closed zone

and a second position to define an open zone, and

at least one radiation source module disposed in the channel and having at least one radiation source element,

at least a portion of the radiation source element being disposed in the closed zone when the confining element is in the first position.

- (Cancelled). 23.
- 24. (Cancelled).
- 25. (Original) The fluid treatment system defined in claim 22, wherein the confining element and the radiation source module are integral.
- (Original) The fluid treatment system defined 26. in claim 22, wherein the radiation source element comprises a longitudinal axis disposed substantially parallel to the direction of fluid in the open channel.
- 27. The fluid treatment system defined (Original) in claim 22, wherein the radiation source element comprises a longitudinal axis disposed transverse to the direction of fluid in the open channel.
- The fluid treatment system defined 28. (Original) in claim 25, comprising a plurality of radiation source modules disposed substantially adjacent to one another.
- The fluid treatment system defined (Original) 29. in claim 28, wherein at least one sealing element is disposed

between adjacent pairs of the plurality of radiation source modules.

- 30. (Original) The fluid treatment system defined in claim 28, further comprising at least one spacer module disposed between adjacent pairs of the plurality of radiation source modules.
- 31. (Original) The fluid treatment system defined in claim 30, wherein the spacer module comprises a first seal disposed on the spacer module, the first seal arranged to provide a seal between the spacer module and a first adjacent radiation source module.
- 32. (Original) The fluid treatment system defined in claim 30, wherein the spacer module comprises a first seal and a second seal disposed on opposed sides of the spacer module, the first seal arranged to provide a seal between the spacer module and a first adjacent radiation source module, and the second seal capable arranged to provide a seal between the spacer module and a second adjacent radiation source module.
- 33. (Currently Amended) A radiation source module comprising a plurality of radiation sources and a frame, each radiation source: (i) having a concentric longitudinal axis in substantially parallel alignment with a concentric

longitudinal axis of adjacent radiation sources, and (ii) being disposed at a predetermined distance from each adjacent radiation source to define a predetermined center-to-center distance between the concentric longitudinal axis of adjacent radiation sources, the radiation source module further comprising a confining element having a surface disposed at a distance from an adjacent radiation source which is equal to a predetermined fraction of the center-to-center distance;

which supports a first end region of the plurality of
radiation sources, the first support member comprising a
first elongate member having a first longitudinal axis
disposed substantially orthogonal to the concentric
longitudinal axis.

- 34. (Cancelled).
- 35. (Currently Amended) The radiation source module defined in claim [[34]] 33, wherein the frame comprises a second support member which supports at least a second end region of the plurality of radiation sources.
  - 36. (Cancelled).
- 37. (Original) The radiation source module defined in claim 35, wherein the second support member comprises a second elongate member having a second

longitudinal axis disposed substantially orthogonal to the concentric longitudinal axis.

- 38. (Original) The radiation source module defined in claim 35, further comprising a third support member interconnecting the first support member and the second support member.
- 39. (Original) The radiation source module defined in claim 38, wherein the confining element is disposed in the third support member.
- 40. (Original) The radiation source module defined in claim 33, further comprising a seal disposed on a first surface of the module, the seal operable to provide a substantially fluid tight seal between the first surface and a second surface which is adjacent to the first surface.
- 41. (Original) The radiation source module defined in claim 40, wherein the seal is disposed on the confining element.
- 42. (Original) The radiation source module defined in claim 38, further comprising a seal disposed on a first surface of the module, the seal operable to provide a

substantially fluid tight seal between the first surface and a second surface which is adjacent to the first surface.

- 43. (Original) The radiation source module defined in claim 40, wherein the seal is disposed on one or more of the first support element, the second support element, the third support element and the confining element.
- 44. (Currently Amended) The radiation source module defined in claim [[34]]  $\underline{33}$ , wherein a power supply is disposed in the frame.
- 45. (Original) The radiation source module defined in claim 33, further comprising an extraction system for moving the module between an in-use and in-service position with respect to a fluid treatment system.
- 46. (Original) The radiation source module defined in claim 43, wherein the seal comprises an expandable seal.
- 47. (Original) The radiation source module defined in claim 43, wherein the seal comprises a deformable seal.